MAK-105US

Appln. No.: 10/613,467
Amendment Dated: September 24, 2008
Reply to Office Action of May 1, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.   (Currently Amended) A multi-channel machine learning trading system for generating a number of independent trading strategies for respective securities, the multi-channel machine learning trading system comprising:

a data feed module for receiving real-time and historical trading data on the securities from a remote data server;

a trading software module comprising:

a trading strategy building module for building the number of independent trading strategies and generating independent respective buy/sell trading signals, based on a number of respective trading parameters used to build each of the trading strategies, the trading parameters being different for each trading strategy,

an optimization choice module for generating optimized trading parameters, for each of the trading strategies, ~~for generating optimized trading parameters,~~ by ~~selecting one or more of the~~ applying a) the number of respective trading parameters and b) historical trading data including a price movement over time of the respective securities in the trading strategy to a regression model to select only the trading parameters ~~so that at least one of the respective trading parameters is prevented from being included in the optimized trading parameters, such that the optimized trading parameters include respective trading parameters that~~ that generate respective buy/sell trading signals over time that correspond to ~~predict the~~ a price movement of the respective securities, the selected trading parameters forming the optimized trading parameters ~~in the trading strategy according to an optimization technique, based on the historical trading data~~, and

a multi-channel machine learning module for independently generating respective self-optimized buy/sell trading signals for each of the trading strategies, by further optimizing the

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respective optimized trading parameters for each of the trading strategies, based on respective trading results from the real-time trading data; and

a multi-channel automatic execution platform for transferring the respective self-optimized buy/sell trading signals for each of the trading strategies simultaneously through a number of parallel programming connection channels from a computer to one or more computerized exchanges, automatically and completely without human intervention.

2.   (Canceled)

3.   (Previously Presented) The system of claim 1, further comprising means of choosing if each of the buy/sell trading signals is executed as a market order, a limit order, a stop order or an order of different predetermined type individually for each trading strategy.

4.   (Canceled)

5.   (Canceled)

6.   (Previously Presented) The system of claim 1, further comprising means of choosing if each of the buy/sell trading signals is executed on a partial execution basis or on an all-or-none execution basis individually for each different trading strategy; and means of handling partial execution cases and readjusting the system when the partial execution occurs.

7.   (Previously Presented) The system of claim 1, further comprising a hard-disk residing database and a computer storage means for storing and accounting a trader's profit/loss information according to execution details of each of the buy/sell trading signals, independent of an additional bank or brokerage accounting system and in addition to a profit/loss accounting system of a bank/brokerage.

8.   (Currently Amended) A system that is a multi-channel automatic execution system based on an application programming interface (API) or a software development kit (SDK), and which uses API/SDK programming procedures, functions and DLLs to establish a number of parallel connection channels in order to connect a user trading system with a further trading system of a bank or a brokerage, or with a trading exchange directly, the system comprising:

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an optimization choice module for generating optimized trading parameters, for each of a number of independent trading strategies, ~~for generating optimized trading parameters,~~ by ~~selecting one or more of a~~ applying a) a number of respective trading parameters ~~so that at least one of the respective trading parameters is prevented from being included in the optimized trading parameters, such that the optimized trading parameters include respective trading parameters that predict a~~ and b) historical trading data including a price movement over time of the respective securities in the trading strategy to a regression model to select only the trading parameters that generate respective buy/sell trading signals over time that correspond to the price movement of the respective securities ~~in the trading strategy according to an optimization technique, based on historical trading data,~~ the selected trading parameters forming the optimized trading parameters.

wherein the system uses the API/SDK programming procedures, the functions and the DLLs to send a number of different and independent buy/sell trading orders from a user computer of the user trading system to computerized exchanges of the further trading system or the trading exchange in a multi-channel mode, automatically and completely without human intervention, through connection channels established by the API/SDK, the number of independent buy/sell trading orders generated by self-optimizing the respective optimized trading parameters for each of the trading strategies.

9.   (Previously Presented) The system of claim 8, further comprising means of choosing an execution trading strategy for each of trading channels corresponding to the connection channels from a number of strategies, according to strategy performance parameters including at least one of a profit/loss, a volatility, or a maximal drawdown .

10.   (Previously Presented) The system of claim 8, further comprising means of choosing a level for order execution automation including a completely automatic execution level, a semi-automatic execution level or a regular user-initiated execution level.

11.   (Previously Presented) The system of claim 8, further comprising means of choosing a different order execution automation level individually for each trading strategy in the system.

12.   (Currently Amended) The system of claim 8, further comprising a multi-channel means of choosing different execution channels for different trading strategies, from a list of

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available order execution channels. the multi-channel means choosing through which execution channel each order is sent to a specific market for each specific trading strategy.

13. (Previously Presented) The system of claim 8, further comprising a multi-channel means of choosing a different order quantity and a different maximal allowable bid/ask spread for each trading strategy.

14. (Previously Presented) The system of claim 8, further comprising means for choosing if the order is executed on a margin or on a cash account for each trading strategy.

15. (Previously Presented) The system of claim 8, further comprising means for choosing for each trading strategy if the order is executed as an Immediate-Or-Cancel (IOC) order or as a Good-Till-Cancelled (GTC) order.

16. (Previously Presented) The system of claim 8, further comprising programming means of receiving and storing order execution particulars through the API/SDK.